IN THE SPECIFICATION:

Please substitute the attached sections or paragraphs of pages 9, 10, 11 and 12 for the relevant sections or paragraphs of pages 9, 10, 11 and 12 of record.

Section 4 of Page 9 of Specification:

1.1.1) Start loop for the attenuator element (k)

$$\sigma a_{PE(i;j;k)} + \sigma a_{PP(i;j;k)} + Z_{(k)} x \sigma a_{C(i;j;k)}$$

~~$\mu_{a(i;j;k)} = [\sigma a_{PE(i,j,k)} + \sigma a_{PP(i,j,k)} Z_{(k)} x \sigma a_{C(i,j,k)}] x p_{(k)} x Av/A_{(k)}$~~

$\mu_{a(i;j;k)} = [\sigma a_{PE(i,j,k)} + \sigma a_{PP(i,j,k)} + Z_{(k)} x \sigma a_{C(i,j,k)}] x \rho_{(k)} x Av/A_{(k)}$

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where: $\sigma a_{PE(i,j,k)}$ = effective photoelectric absorption cross-section

$\sigma a_{C(i,j,k)}$ = Compton effective absorption cross-section

Section 2 of Page 10 of Specification:

~~$\mu_{a(i,j)}^{(NaI)} = PE_{(j)}^{(NaI)} + Z_{(NaI)} \times \sigma a_{(j)}^{(NaI)} \times \frac{Av}{A_{(NaI)}} \times \acute{n}_{(NaI)}$~~

$$\mu_{a\,(i,j)}^{(NaI)} = [\sigma a_{PE(j)}^{(NaI)} + Z_{(NaI)} X \sigma a_{C(j)}^{(NaI)}] X \frac{Av}{A_{(NaI)}} X \rho(NaI)$$

Section 2 of Page 11 of Specification

~~$\sigma dif_{C(j')}$ (NaI) x $z_{(NaI)}$ x Final $flux_{(i,j',k)}$ x Av x $p_{(NaI)}$ x $A_{(NaI)}$~~

$$\sigma dif_{C(j')}\ (NaI)\ x\ z_{(NaI)}\ x\ \text{Final flux}_{(i,j,k)(i,j',k)}\ x\ \frac{Av\ x\ \rho_{(NaI)}\ x}{A_{(NaI)}}$$

Section 2 of Page 12 of Specification

~~$= \quad \sigma dif_{C(j'')}\ (NaI) x Z_{(NaI)}$ x final flux$_{(i,j,k)}$ x Av x$\rho_{(NaI)}$ x $X_{(NaI)}$ $A_{(NaI)}$~~

~~where: $\sigma dif_{C(j'')}$ (Nai) = effective Compton front scattering cross-section~~

$$= \quad \sigma dif_{C(j'')}\ (NaI) x Z_{(NaI)} \text{ x final flux}_{(i,j,k)} \text{ x } \frac{Av\ x \rho_{(NaI)}\ x\ X_{(NaI)}}{A_{(NaI)}}$$

where: $\sigma dif_{C(j'')}$ (Nai) = effective Compton front scattering cross-section

Section 5 of Page 12 of Specification

$$= \quad \sigma dif_{C(j,'')}(NaI) x Z_{(NaI)} \text{ x final flux}_{(i,j,k)} \text{ x } \frac{Av \ \sout{Xp_{(NaI)}} \ \underline{xp_{(NaI)}} \text{ x } X_{(NaI)}}{A_{(NaI)}}$$

where: $\sigma dif_{C(j,'')}$ = effective Compton background scattering cross-section.